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Need to mention conjugates (sum of all roots in $GF(p^n)$)

... The Galois Field used by **XTR**, $GF(p^6)^*$, has order $p^6 - 1$. This format is taken advantage of when choosing the subgroup for **XTR**. ...

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The XTR Cryptosystem

... **XTR** uses Galois Fields, denoted $GF(p^n)$. A Galois Field is a finite extension field of characteristic p and extension of degree n . Galois Fields are finite ...

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MIT Laboratory for Computer Science, March 2003 335 Improving **XTR** David Woodruff, Marten ... protocol, Alice and Bob work over some finite field $GF(p^6)$, Alice ...

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... RSA. ECC. **XTR**. Element representation of $GF(p^2)$. Let $p \equiv 2 \pmod 3$, then and p form an ONB for $GF(p^2) \times GF(p^2)$, $x = x_1 + x_2 p$, $p = x_1 + x_2 \omega$. Trace. ...

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gf

... **gf**: FRAME, rocky mountain element to. SHOCK, sid. BOT. BRACKET, race face. CRANKS, race face. CHAINRINGS, race face. PEDALS, time atac. FRONT DER, **xtr**. CHAIN, **xtr**. REAR DER, **xtr**. ...

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... representation in cryptographic protocols is provably as secure as using the traditional representation in $GF(p^6)$ • either **XTR** is secure (because $GF(p^6)$...

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... **XTR** Extended to $GF(p)$ Seongan Lim A1, Seungjoo Kim A1, Ikkwon Yie A2, Jaemoon Kim A2, Hongsub Lee A1. A1 KISA (Korea Information ...

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... 1 and where $p \equiv 2 \pmod 3$. Claim: **XTR** achieves the communication advantages and computational costs of $GF(p^2)$ but has the security of $GF(p^6)$. This is ...

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XTR

... <http://www.comp.mq.edu.au/~igor/Publ.htm>; Seongan Lim, Seungjoo Kim, Ikkwon Yie, Jaemoon Kim, Hongsub Lee: "XTR Extended to GF(p 6m)", Selected Areas in ...
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... as secure as traditional versions over GF(p6). either XTR is secure (because GF(p6) is secure). ... Either XTR is secure or GF(p6) is not as secure as believed. ...

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